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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/075,970	02/14/2002	Michael Helmus	01-202	9278	
27774 MAYER & WI	7590 01/10/2007 LLIAMS PC		EXAMINER HO, UYEN T		
251 NORTH A 2ND FLOOR	VENUE WEST				
WESTFIELD, 1	NJ 07090		ART UNIT	PAPER NUMBER	
		3731			
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE	
3 MOI	NTHS	01/10/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/075,970	HELMUS, MICHĄEL				
Office Action Summary	Examiner	Art Unit				
	(Jackie) Tan-Uyen T. Ho	3731				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	L. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 06 De	ecember 2006.					
2a) This action is FINAL . 2b) ☑ This						
3) Since this application is in condition for allowar						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1,3,5-7 and 9-21</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3,5-7 and 9-21</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.	•				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Mail D. 5) Notice of Informal F 6) Other:	ate				

DETAILED ACTION

Response to Arguments

1. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 3, 6, 9-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Datta et al. (6,338,739) in view of Litner (6,589,286). Datta et al. disclose a stent comprising a biodegradable inner core and a biodegradable outer covering material wherein after insertion into a patient, the stent becomes decreasingly rigid and increasingly biomechanically compatible with body tissue in contact with the device over time. Datta et al. fails to disclose the material of an inner core being ceramic or biodegradable metallic. Litner discloses a stent being made biodegradable ceramic, metal oxides for providing the necessary physical properties (col. 5, lines 15-47). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute the material of inner core of Datta et al. with a ceramic or metallic materials as claimed in view of Litner. Doing so would amount to

Art Unit: 3731

mere substitution of one material for other within the same art that would allow to provide a desire physical properties for the stent of Datta et al.

Furthermore, it is well known in the art that the metallic or ceramic material would

provide mechanical properties such as hardness and rigidity. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute biodegradable polymeric inner core of Datta et al. with a biodegradable metallic or ceramic inner core in order to enhance the strength of the stent of Datta et al. Claims 1, 3, 6, 9-21 are rejected under 35 U.S.C. 103(a) as being unpatentable 4. over Datta et al. (6,338,739) in view of Steinke et al. (6,623,521). Datta et al. disclose a stent comprising a biodegradable inner core and a biodegradable outer covering material wherein after insertion into a patient, the stent becomes decreasingly rigid and increasingly biomechanically compatible with body tissue in contact with the device over time and wherein the inner core being made from polymer. Datta et al. fail to disclose the material of an inner core being ceramic or biodegradable metallic. Steinke et al. disclose the a stent being made from at least two layers and the backbone structure of the stent being made from biodegradable materials wherein the biodegradable materials being polymer or ceramic or biodegradable metallic (col. 17, lines 1-19). Steinke et al. also disclose that increasing the hardness of material for making a stent would allow for thinner stent thickness. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to replace biodegradable polymer inner core with ceramic or biodegradable metallic inner core for Datta et al.'s stent in order to enhance the strength as well as reduce the thickness of Datta's stent.

Art Unit: 3731

- 5. Claims 1, 3, 6, 9-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al. (WO98/56312) in view of Steinke et al. (6,623,521). Wang et al. disclose a stent comprising a biodegradable inner core and a biodegradable outer covering material wherein after insertion into a patient, the stent becomes decreasingly rigid and increasingly biomechanically compatible with body tissue in contact with the device over time. Although, Wang et al.'s stent is made from polymeric material, Steinke et al. disclose the a stent being made from at least two layers and the back bone structure of the stent being made from biodegradable materials wherein the biodegradable materials being polymer or ceramic or biodegradable metallic (col. 17, lines 1-19). Steinke et al. also disclose that increasing the hardness of material for making a stent would allow for thinner stent thickness. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to replace biodegradable polymer inner core with ceramic or biodegradable metallic inner core for Wang et al.'s stent in order to enhance the strength as well as reduce the thickness of Wang's stent.
- 6. Claims 5 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al. (WO98/56312) in view of Steinke et al. (6,623,521) further in view of Langer et al. (6,160,084). The teaching of Wang et al. in view of Steinke et al. discloses a stent comprising a biodegradable inner core and a biodegradable outer covering material wherein after insertion into a patient, the stent becomes decreasingly rigid and increasingly biomechanically compatible with body tissue in contact with the device over time wherein the outer cover being a biodegradable polymer and the inner core being

Art Unit: 3731

ceramic, biodegradable metallic. The teaching of Wang et al. in view of Steinke et al. fails to disclose the outer cover being a shape memory biodegradable polymer. Langer et al. disclose biodegradable polymer being a shape memory polymer for making medical implant, stent etc. in order to provide the stent with memory shape and the biodegradable shape memory polymer comprising hydrophobic SMP coating for control degradation rate (col. 12, lines 59-67) and wherein the polymer compositions can combined with fillers reinforcement materials such as calcium-sodium-metaphosphate. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to employ the cover material being shape memory biodegradable polymer and comprising hydrophobic coating in order to provide a memory shape for the stent of Wang et al. in view of Steinke et al. as well as to control degradation rate of the stent.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Jackie) Tan-Uyen T. Ho whose telephone number is 571-272-4696. The examiner can normally be reached on MULTIFLEX Mon. to Sat..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ANHTUAN NGUYEN can be reached on 571-272-4963. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/075,970

Art Unit: 3731

Page 6

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jackie)/Tan-Uyen T. Ho

Primary Examiner Art Unit 3731

January 5, 2007